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### IN THE CLAIMS

The status of the claims as presently amended is as follows:

## 1-27. (Canceled)

- 28. (Currently Amended) A linear motor comprising:
- (a) a tubular outer yoke:
- (b) a tubular inner yoke disposed in said outer yoke:
- (c) a coil provided to one of said outer yoke and said inner yoke;
- (d) a ring shaped permanent magnet located between said outer yoke and said inner yoke, and vibrating in response to a magnetic flux produced by said coil; and
- (e) a tubular vibrator made of magnetic material and supporting said permanent magnet, wherein said vibrator is locatinged between said outer yoke and said inner yoke.
- 29. (Currently Amended) The linear motor as defined in Claim 28, said motor further comprising a slit formed extendedly extending along a circumference direction of said vibrator.
- 30. (Currently Amended) The linear motor as defined in Claim 28, wherein said permanent magnet is fixed to a side face of said vibrator facing said coil.
- 31. (Currently Amended) The linear motor as defined in Claim 28, wherein electrical resistance of said vibrator is not less than 100  $\mu\Omega$  cm.
- 32. (Currently Amended) The linear motor as defined in Claim 28, wherein permeability of said vibrator is more than 10 times as that of vacuum.
- 33. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising iron and chrome.

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- 34. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising 80-90 wt% of iron and 10-20 wt% of chrome.
- 35. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising iron, chrome, and aluminum.
- 36. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising 75-88 wt% of iron, 10-20 wt% of chrome, and 2-5 wt% of aluminum.
- 37. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising iron and silicon.
- 38. (Currently Amended) The linear motor as defined in Claim 28, wherein said vibrator is made of material comprising nickel and iron.
- 39. (Currently Amended) The linear motor as defined in Claim 28, said motor further comprising a slit provided on a side face of said vibrator.
- 40. (Currently Amended) The linear motor as defined in Claim 39, wherein said slit is long and narrow along a vibrating direction of said vibrator.
- 41. (Currently Amended) The linear motor as defined in Claim 28, said motor further comprising a section made of electrically insulating resin and provided on a side face of said vibrator.
- 42. (Currently Amended) The linear motor as defined in Claim28, wherein at least one of said outer yoke and said inner yoke is a compression-formed body made of metal magnetic particles.

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- 43. (Currently Amended) The linear motor as defined in Claim 28, wherein at least one of said outer yoke and said inner yoke is a compression-formed body made of metal magnetic particles and electrically insulating resin.
- 44. (Currently Amended) The linear motor as defined in Claim 28, wherein at least one of said outer yoke and said inner yoke is a compression-formed body made of metal magnetic particles, and has an electrically insulating layer on a surface thereof.
- 45. (Previously Presented) The linear motor as defined in Claim 44, wherein the electrically insulating layer is made of inorganic material.
- 46. (Previously Presented) The linear motor as defined in Claim 42, wherein said at least one of said outer yoke and said inner yoke is divided in a circumference direction.
- 47. (Previously Presented) The linear motor as defined in Claim 42, wherein an insulating layer is provided on a bonding face of said at least one of said outer yoke and said inner yoke.
- 48. (Currently Amended) AThe linear motor comprising:
- (a) a tubular outer yoke;
- (b) a tubular inner yoke disposed in said outer yoke:
- (e) a coil provided to one of said outer yoke and said inner yoke;
- (d) a ring shaped permanent magnet located between said outer yoke and said inner yoke, and vibrating in response to a magnetic flux produced by said coil; and
- (e) a tubular vibrator supporting said permanent magnetas defined in claim 28, wherein said permanent magnet is fixed to said vibrator on a side of one of said outer yoke and said inner yoke whicheverthat includes said coil.
- 49. (Currently Amended) AThe linear motor comprising:

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- (a) a tubular outer yoke;
- (b) a tubular inner yoke disposed in said outer yoke;
- (c) a coil provided to one of said outer yoke and said inner yoke:
- (d)—a ring shaped permanent magnet located between said outer yoke and said inner yoke.

  and vibrating in response to a magnetic flux produced by said coil; and
- (c) a tubular vibrator supporting said permanent magnetas defined in claim 48, wherein at least one of said outer yoke and said inner yoke is a compression-formed body made of metal magnetic particles.
- 50. (Currently Amended) A compressor including a linear motor, said motor comprising:
- (a) a tubular outer yoke;
- (b) a tubular inner yoke disposed in said outer yoke;
- (c) a coil provided to one of said outer yoke and said inner yoke;
- (d) a ring shaped permanent magnet located between said outer yoke and said inner yoke, and vibrating in response to a magnetic flux produced by said coil; and
- (e) a tubular vibrator made of magnetic material and supporting said permanent magnet, wherein said vibrator is locatinged between said outer yoke and said inner yoke.
- 51. (Currently Amended) A compressor including a linear motor, said motor comprising:
- (a) a tubular outer yoke;
- (b) a tubular inner yoke disposed in said outer yoke;
- (c) a coil provided to one of said outer yoke and said inner yoke;
- (d) a ring shaped permanent magnet located between said outer yoke and said inner yoke, and vibrating in response to a magnetic flux produced by said coil: and
- (e) a tubular vibrator <u>made of magnetic material</u> supporting said permanent magnet, wherein said permanent magnet is fixed to said vibrator on a side of one of said outer yoke and said inner yoke whicheverthat includes said coil.

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- 52. (Currently Amended) A compressor including a linear motor, said motor comprising:
- (a) a tubular outer yoke;
- (b) a tubular inner yoke disposed in said outer yoke;
- (c) a coil provided to one of said outer yoke and said inner yoke;
- (d) a ring shaped permanent magnet located between said outer yoke and said inner yoke, and vibrating in response to a magnetic flux produced by said coil; and
- (e) a tubular vibrator <u>made of magnetic material</u> supporting said permanent magnet, wherein at least one of said outer yoke and said inner yoke is a compression-formed body made of metal magnetic particles.